

Amendments to the Specification:

Applicants present replacement paragraphs below indicating the changes with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing.

Please replace paragraph [0043] with:

[0043] **Fig. 5** is a flowchart illustrating an exemplary method 500 for monitoring the availability and status of wireless network interfaces in wireless network access device 130. Broadly, the method queries each of the interface cards to determine status and availability information, and stores the information in a memory table. ~~The method begins at operation 510, and at~~ At step 512 a counter is set to a numeric value of 1. At operation 514 the parallel scheduler module queries the i^{th} wireless network interface card to obtain status and availability information associated with the wireless network interface. In an exemplary embodiment, the parallel scheduler module may obtain information indicating one or more of the following: (1) whether the wireless network interface card is operational; (2) whether the wireless network interface card is currently connected to the network; (3) whether the wireless network interface card is available for use; (4) the signal strength of the wireless connection; (5) the signal-to-noise ratio of the connection; (6) the available bandwidth of the connection; or (7) the bit error rate (BER). A wireless network interface card may make this information available through API calls, which the parallel scheduler module may execute. This information may also be derived from application-level statistics collected for previous data downloads on each interface, e.g., average time to download an object through a given interface over the previous five downloads.

Amendment

Application Number: 19/695,928

Attorney Docket Number: 304931.01

Please replace paragraph [0046] with:

[0046] The parallel scheduler module uses the information in the data table to select a number of wireless network interface cards for use in transmitting a request. **Fig. 6** is a flowchart illustrating an exemplary method 600 invoked by the parallel scheduler module for selecting a number of wireless network interfaces for use in transmitting a request. ~~The method begins at 610, and at~~ At operation 612 the parallel scheduler module retrieves information associated with the requested resource. In an exemplary embodiment, the parallel scheduler module invokes a query to request the size of the resource, the number of separate objects included in the resource, and the size of each separate object. This query is transmitted across a wireless network interface, processed by the server that holds the resource, returned to the wireless network access device 130, and stored in a suitable memory location.

Please replace paragraph [0050] with:

[0050] Based on the number of objects in the resource and whether one or more objects were subdivided in operation 618 ~~[[616]]~~, the parallel scheduler module determines a number of TCP connections to use in downloading the resource, at operation 620. For example, assume a resource includes five objects, but one object is subdivided into three separate TCP connections. The parallel scheduler module would assign seven TCP connections to download this resource.

Amendment

Application Number: 19/695,928

Attorney Docket Number: 304931.01

Please replace paragraph [0054] with:

[0054] In operation, wireless network access device 130 executes the operations in Figs. 4–6 repeatedly. As a result, the cache memory [[325]] compiles resources that have been downloaded. Therefore, cache memory [[325]] may need to be managed to avoid an overflow condition. In an exemplary embodiment, cache memory [[325]] may be purged on a periodic basis. In an alternate embodiment, cache memory may be purged of resources that are older than a threshold amount. For example, cache memory [[325]] may be purged of all resources downloaded more than six hour ago. These memory management methods are merely exemplary; other memory management methods may be used.

Amendment

Application Number: 19/695,928

Attorney Docket Number: 304931.01